

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

**PATENT NO.** : 6,898,452 B2  
**APPLICATION NO.** : 10/668,487  
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**INVENTOR(S)** : Ammar Al-Ali

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 1, Line 10, please delete "Ali" and insert -- Al-Ali --, therefore.

In Column 2, Line 7, please delete "et al.," and insert -- et al., --, therefore.

In Column 1, Line 39, after "plasma" please insert -- . -- .

In Column 11, Line 19, after " $f_1$ " please delete " ;".

In Column 12, Line 26, please delete " $Sp_aO_2$ " and insert --  $Sp_vO_2$  --, therefore.

In Column 18, Line 51, Equation 13, please delete " $1.34C_{HbSO_2}$ " and insert --  $1.34C_{Hb}SO_2$  --, therefore.

In Column 19, Line 24, please delete " $\omega$ " and insert --  $\Phi$  --, therefore.

In Column 19, Line 35, after "hyperbola" please insert -- . -- .

In Column 19, Line 43, please delete " $Sp_aO_2$ " before "1790" and insert --  $Sp_vO_2$  --, therefore.

In Column 20, Line 43, after "plasma" please insert -- . -- .

In Column 23, Line 48, after "aorta" please insert -- . -- .

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